

BRANCH I: DIPLOMA IN MECHANICAL ENGINEERING

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	FE	Total
SEMESTER 1								
THEORY								
X21101	ENGINEERING MATHEMATICS -I	4	1	-	5	25	75	100
X21102	PHYSICS	4	1	-	5	25	75	100
X21103	CHEMISTRY	4	-	-	4	25	75	100
X21104	ENGLISH	4	-	-	4	25	75	100
M21105	ENGINEERING DRAWING-I	2	-	3	3.5	25	75	100
PRACTICALS								
X21151	PHYSICS LABORATORY	-	-	2	1	25	75	100
X21152	CHEMISTRY LABORATORY	-	-	2	1	25	75	100
M21153	FITTING, SHEET METAL & WIRING WORKSHOP	-	-	3	1.5	25	75	100
M21154	INPLANT TRAINING	-	-	3	1.5	-	-	GRADE
X21155	PHYSICAL EDUCATION -I	-	-	2	1	-	-	GRADE
	TOTAL	18	2	15	27.5	200	600	800
SEMESTER 2								
THEORY								
X21201	ENGINEERING MATHEMATICS -II	4	1	-	5	25	75	100
X21202	CALCULUS AND ITS APPLICATIONS	4	1	-	5	25	75	100
M21203	ENGINEERING PHYSICS	4	-	-	4	25	75	100
M21204	CHEMISTRY OF ENGINEERING MATERIALS	4	-	-	4	25	75	100
M21205	ENGINEERING DRAWING-II	2	-	3	3.5	25	75	100
PRACTICALS								
M21251	ENGINEERING PHYSICS LABORATORY	-	-	2	1	25	75	100
M21252	CHEMISTRY OF ENGINEERING MATERIALS LABORATORY	-	-	2	1	25	75	100
M21253	FOUNDRY & WELDING WORKSHOP	-	-	3	1.5	25	75	100
M21254	COMMUNICATIVE ENGLISH LABORATORY	1	-	2	2	25	75	100
X21255	PHYSICAL EDUCATION- II	-	-	2	1	-	-	GRADE
	TOTAL	19	2	14	28	225	675	900
SEMESTER 3								
THEORY								
M21301	PROBABILITY AND STATISTICS	4	1	-	5	25	75	100
M21302	ENGINEERING MECHANICS	4	1	-	5	25	75	100
M21303	HYDRAULICS & HYDRAULIC MACHINES	4	-	-	4	25	75	100
M21304	MANUFACTURING PROCESSES-I	4	-	-	4	25	75	100
PRACTICALS								
M21351	BASICS OF COMPUTING AND INFORMATICS	-	-	3	1.5	25	75	100
M21352	METALLOGRAPHY & NDT LABORATORY	-	-	3	1.5	25	75	100
M21353	HYDRAULICS LABORATORY	-	-	3	1.5	25	75	100
M21354	MACHINE SHOP LABORATORY -I	-	-	3	1.5	25	75	100
M21355	MACHINE DRAWING	2	-	3	3.5	25	75	100
	TOTAL	18	2	15	27.5	225	675	900

Legend: **CA**–Continuous Assessment; **FE**–Final Examination;

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		Lecture	Tutorial	Practical		CA	FE	total
SEMESTER 4								
THEORY								
M21401	STRENGTH OF MATERIALS	4	1	-	5	25	75	100
M21402	HEAT POWER ENGINEERING	4	1	-	5	25	75	100
M21403	ELECTRICAL & ELECTRONICS ENGINEERING	4	1	-	5	25	75	100
M21404	MANUFACTURING PROCESSES-II	4	1	-	5	25	75	100
PRACTICALS								
M21451	STRENGTH OF MATERIALS LABORATORY	-	-	3	1.5	25	75	100
M21452	HEAT POWER ENGINEERING LABORATORY	-	-	3	1.5	25	75	100
M21453	ELECTRICAL & ELECTRONICS ENGINEERING LABORATORY	-	-	3	1.5	25	75	100
M21454	MACHINE SHOP LABORATORY-II	-	-	3	1.5	25	75	100
M21455	CAD LABORATORY	-	-	3	1.5	25	75	100
M21456	INTERNSHIP [#]	-	-	-	3	-	-	GRADE
	TOTAL	16	4	15	30.5	225	675	900
SEMESTER 5								
THEORY								
M21501	CAD/CAM/CIM	4	1	-	5	25	75	100
M21502	DESIGN OF MACHINE ELEMENTS	4	1	-	5	25	75	100
M21Exx	ELECTIVE THEORY -I	4	1	-	5	25	75	100
PRACTICALS								
M21551	TECHNICAL 3D MODELING LABORATORY	1	-	3	2.5	25	75	100
M21552	PROCESS AUTOMATION LABORATORY	1	-	3	2.5	25	75	100
M21553	AUTOMOBILE ENGINEERING LABORATORY	-	-	3	1.5	25	75	100
M21554	TECHNICAL COMMUNICATION LABORATORY	1	-	2	2	25	75	100
M21555	MINI PROJECT AND ENTREPRENEURSHIP	3	-	3	4	25	75	100
	TOTAL	18	3	14	27.5	200	600	800
SEMESTER 6								
THEORY								
M21601	INDUSTRIAL ENGINEERING & MANAGEMENT	4	1	-	5	25	75	100
M21602	METROLOGY & QUALITY CONTROL	4	-	-	4	25	75	100
M21Exx	ELECTIVE THEORY- II	4	1	-	5	25	75	100
PRACTICALS								
M21651	CNC LABORATORY	-	-	3	1.5	25	75	100
M21652	ASSEMBLY & MAINTENANCE LABORATORY	-	-	3	1.5	25	75	100
M21653	METROLOGY LABORATORY	-	-	3	1.5	25	75	100
M21654	PLC LABORATORY	-	-	3	1.5	25	75	100
M21655	PROJECT WORK AND VIVA VOCE	-	-	9	4	25	75	100
	TOTAL	12	2	21	24	200	600	800

ELECTIVE COURSES (Two to be opted)

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	FE	TOTAL
THEORY								
M21E01	AUTOMOBILE ENGINEERING	4	1	-	5	25	75	100
M21E02	REFRIGERATION & AIR CONDITIONING	4	1	-	5	25	75	100
M21E03	LEAN MANUFACTURING AND MANAGEMENT	4	1	-	5	25	75	100
M21E04	RAPID PROTOTYPING AND MANUFACTURING	4	1	-	5	25	75	100
M21E05	ENVIRONMENTAL ENGINEERING	4	1	-	5	25	75	100

Legend **CA**–Continuous Assessment; **FE**–Final Examination;
-Internship will be arranged for 4 weeks during the vacation at the end of 4th semester.